

MEMORANDUM OF AGREEMENT

ON

DEVELOPMENT OF NURSERY MANAGEMENT AND OUTPLANTING  
TECHNIQUE(S) FOR SELECTED TISSUE CULTURED BAMBOO SPECIES

KNOW ALL MEN BY THESE PRESENTS:

This agreement entered into by and between:

The DEPARTMENT OF SCIENCE AND TECHNOLOGY - PHILIPPINE COUNCIL FOR AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH AND DEVELOPMENT hereinafter referred to as "DOST-PCAARRD", with principal office at Los Baños, Laguna and represented by its Executive Director, **DR. REYNALDO V. EBORA**;

-and-

The **VISAYAS STATE UNIVERSITY**, hereinafter referred to as "VSU", with principal office at Visca, Baybay City, Leyte represented herein by its President, **DR. EDGARDO E. TULIN**.

**WHEREAS**, the abovementioned project was approved during the 18th Regular DOST-PCAARRD Directors' Council Meeting through video conference via Zoom Meetings on **October 21, 2021**.

NOW THEREFORE, for and in consideration of the foregoing premises, the PARTIES hereby agree to the following terms and conditions:

WITNESSETH:

I. Purpose

This agreement seeks to implement the project titled, "**Development of Nursery Management and Outplanting Technique(s) for Selected Tissue Cultured Bamboo Species**".

II. Objectives

General Objective

To sustain the production of existing bamboo cultures through tissue culture techniques, and establish tissue-cultured bamboos in the nursery until outplanting in the field for continuous production of quality planting materials.

Specific Objectives

1. To subculture and maintain quality planting materials of *B. tulda*, *D. membranaceus* var *Grandis*, *G. angustifolia*, *D. asper* and *D. giganteus* under in vitro condition;

DOST-PCAARRD and VSU / Development of Nursery Management and Outplanting Technique(s) for Selected Tissue Cultured Bamboo Species / PhP 3,990,296.00

ABEGAIL GRACE M. MARALIT  
Accountant III  
DOST-PCAARRD

CATHERINE C. ARRADAZA  
Project Leader  
VSU

FAUSTINA C. BARADAS  
Officer-in-Charge, FERD  
DOST-PCAARRD

EDGARDO E. TULIN  
President  
VSU

REYNALDO V. EBORA  
Executive Director  
DOST-PCAARRD



2. To develop nursery management techniques and vegetative/clonal propagation for *B. tulda*, *D. membranaceous var Grandis*, *G. angustifolia*, *D. asper* and other existing bamboos to produce vigorous and robust planting materials ready for field planting, and
3. To develop outplanting techniques in the establishment of tissue cultured bamboo in the field, and monitor the growth of the tissue cultured bamboo in the identified field-demo sites.

### III. Expected Outputs

The Project will have the following Expected Outputs:

#### 6Ps Metrics

##### Publications

- > At least 2 peer reviewed paper

##### Patent

- > 1 Outplanting Procedure/Management

##### Products

- > 1000 (Tissue cultured bamboos of at least four species)
- > 200 (Hardened tissue cultured bamboo in the nursery of at least four species)
- > At least 150 ex vitro clonally propagules
- > At least one (1) Field-demo farm of tissue cultured bamboo

##### People Services

- > Recommendation for field planting of tc-derived bamboos Trainings
- > 1 Student assistantship, Bamboo growers

##### Places and Partnership

- > At least one (1) LGUS or Private Stakeholders

##### 2Is

##### Economic Impact

- > Improve livelihood
- > Available bamboo planting material.

##### Social Impact

- > Adoption of propagation technology by bamboo farmers, growers.
- > Available planting material.

### IV. Duration of the Project

The project shall be implemented for two (2) years, covering the period **December 1, 2021 to November 30, 2023**. The project shall commence immediately or within two (2) months after the release of funds. In case there is a change in actual date of implementation, it shall be requested from DOST-PCAARRD by DOST-PTRI.

### V. Rights and Obligations of the Parties

**DOST - PCAARRD shall:**

- a. Provide financial support for the project with a total grant of **"Three Million Nine Hundred Ninety Thousand Two Hundred Ninety Six Pesos" (PhP 3,990,296.00)**

*DOST-PCAARRD and VSU / Development of Nursery Management and Outplanting Technique(s) for Selected Tissue Cultured Bamboo Species / PhP 3,990,296.00*

ABEGAIL GRACE M. MARALIT  
Accountant III  
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Executive Director  
DOST-PCAARRD

# ACKNOWLEDGMENT

Republic of the Philippines)  
Municipality of Los Baños) S.S.

BEFORE ME, A NOTARY PUBLIC for and in Los Baños, Laguna, Philippines, on this  
2021, personally appeared:

JAN 20 2022

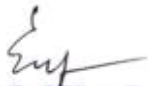
<u>NAME</u>	<u>GOVERNMENT ISSUED IDENTIFICATION</u>	<u>DATE/PLACE ISSUED</u>
Dr. Reynaldo V. Eborra	Passport No. S0005685A	Aug 17, 2017/DFA, Manila
Dr. Edgardo E. Tulin	_____	_____

Known to me to be the same persons who executed the foregoing instrument and they  
acknowledged to me that the same is their free and voluntary act and deed as well as that of the  
Entities they represent.

This instrument, consisting of eight (8) pages, including this page whereon this  
Acknowledgement is written, signed by the parties together with their instrumental witnesses one  
each on every page thereof

TO THE TRUTH OF FOREGOING, witness now my hand and seal on the date and  
place first above written.

Doc No. 335  
Page No. 108  
Book No. 413  
Series of 2022

  
**ATTY. ELENO O. PERALTA**  
Notary Public Until June 30, 2022  
Calamba City, Los Baños Bay, Calauan, Laguna  
I.P. No. 162389/07-14-2021/Laguna Chapter  
Per SC/BM # 3795/Not. Com. # 01-2020-C  
PTR No. 261415/01-03-22/Los Baños, Laguna  
Roll No. 33880/May 1986